

PATENT SPECIFICATION

607,592



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COMPLETE SPECIFICATION

Improvements in Apparatus for Spraying Plants.

We, FRANCIS DAVID BERTHOUD and NADINE BERTHOUD, Swiss Citizens, trading as the firm of BERTHOUD & CIE., of Vevey-Corseaux, Switzerland, do hereby declare the nature of this invention and in what manner the same is to be performed, to be particularly described and ascertained in and by the following statement.

The present invention relates to a spraying apparatus for combating insect pests on plants, comprising a flexible tube connected to a piston operated spray producer, and is characterised by the fact that a bottle containing liquid insecticide is adapted to be readily attached to and removed from the sprayer, the apparatus having a holding strap with an upper cross piece to prevent it slipping off, which is passed round the container and is fixed to a carrier strap.

The apparatus shown in the accompanying drawing consists of a liquid container, 1, around which a holding strap 2 is passed, with an upper cross piece 2a, to which is attached a carrying strap 3. The neck 4 is provided with an external thread 5 and an outlet 6, and is fitted with a sealing cap 7 with an internal thread. A short length of tubing 8 passing through the cap 7 is attached inside the container to tube 9, which passes down to the bottom of container 1, and outside the container to the flexible tube 10 which is connected to the pump cylinder 11 by the connecting piece 12. The sealing cap 7 is formed in two parts. One part is screwed on to the neck 4 and carries the tube 8 and a connecting piece 13 to which the other part which comprises the measuring vessel 14 is attached. The connector 13 is tubular and can be used for filling the container 1 with liquid.

The measuring vessel 14 screwed to the connecting piece 13 forms an effective seal. The measuring vessel 14 consists of a removable screwed-on cup-like device calibrated to hold a pre-arranged quantity of liquid, e.g., a dosage of concentrated

insecticide. The tube 9 may be provided at the end inside the container with a strainer, and if desired, with a foot valve to control flow of the liquid from tubes 9 and 10. Pump cylinder 11 comprises in the known manner a piston which can be moved to and fro by one hand by means of the handle 15, while the other hand holds the cylinder 11 by the handle 16, and directs it towards the plant which is to be sprayed.

A detachable nozzle 18 is screwed on the upper end of the cylinder 11, to form an outlet for the liquid spray.

The container 1 is suitably calibrated to mark the contents of the container, which does useful service in measuring the separate quantities of a mixture. The amount to be added is determined with the help of measuring vessel 14. The container may be made of glass or other transparent material. It is provided with a wooden base 20, which protects the bottom of the container against damage and helps to set it up securely.

Having now particularly described and ascertained the nature of our said invention, and in what manner the same is to be performed, we declare that what we claim is:—

1. Apparatus for spraying plants comprising a flexible tube connected to a piston operated spray producer, characterised by the fact that a bottle is adapted to be readily attached to and removed from the sprayer, the apparatus having a holding strap with an upper cross piece to prevent it slipping off, which is passed round the container and is fixed to a carrier strap.

2. Apparatus according to Claim 1, characterised by the fact that the flexible tube is secured to a tube that is passed through the sealing cap of the container in the container neck and fixed thereto.

3. Apparatus according to Claim 2, characterised by the fact that the sealing cap is formed in two parts, one part screwed on the neck of the container, and carrying the

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spraying tube connection and a connecting piece to which the other part which comprises a measuring vessel is attached.

4. Apparatus according to Claim 3, characterised by the fact that the connecting piece carrying the measuring vessel is tubular, so that it can be used for filling the container with liquid.

5. Apparatus according to Claim 4, characterised by the fact that a scale is provided on the container for the preparation and control of the ingredients of the spraying

mixture.

6. Apparatus according to Claim 5, characterised by the fact that the bottom of the liquid container is supported on a wooden base.

Dated this 25th day of January, 1945.

W. H. BECK & CO.,

Chartered Patent Agents,

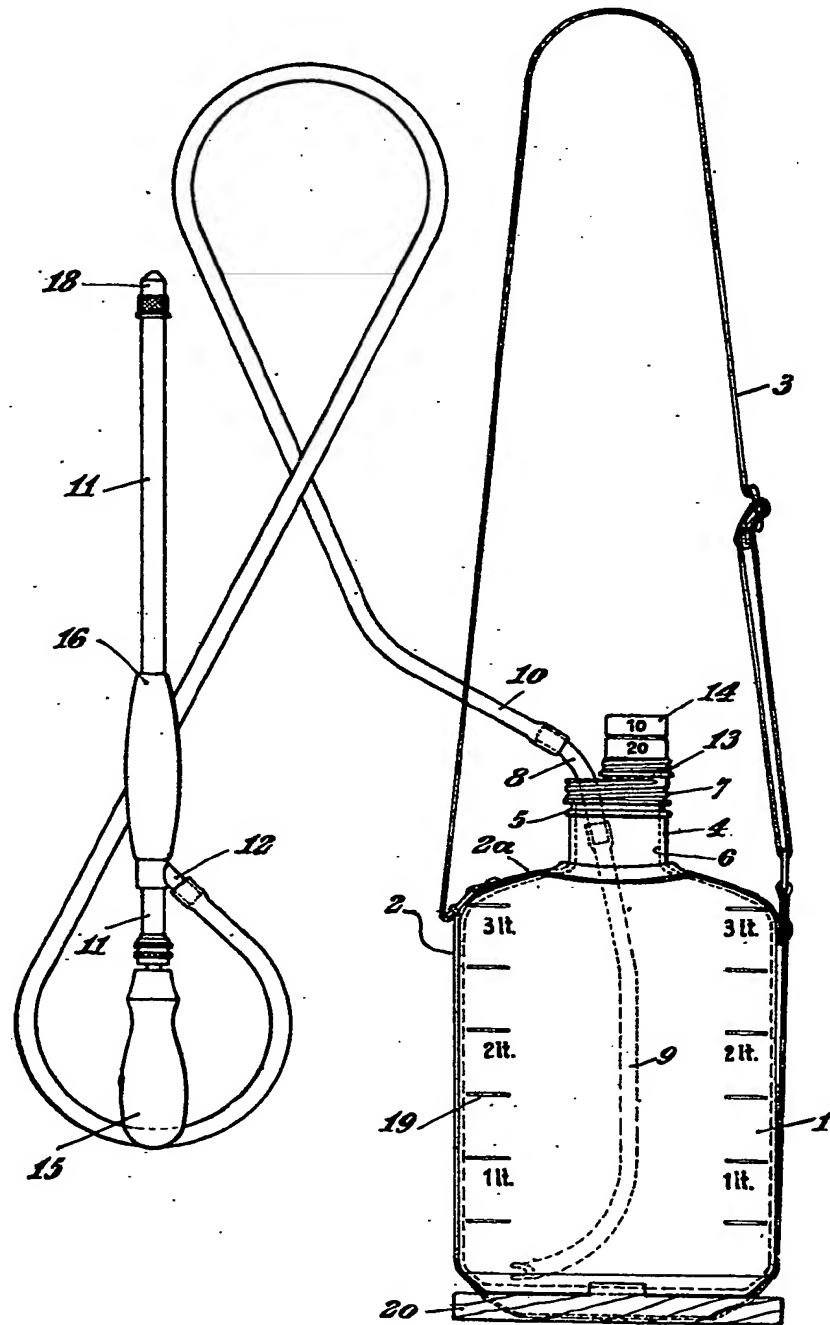
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[This Drawing is a reproduction of the Original on a reduced scale.]



H.M.S.O. (Ty. P)

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